AT-EX1001SC/GMI, Gigabit Ethernet Multi-Mode Media Extender

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KEY FEATURES

Compact standalone chassis

Extends Gigabit Ethernet to 2km on Multi-Mode fiber

Signifigant cost savings using Multi-Mode vs Single-Mode fiber cabling

Gigabit deployment over Legacy FDDI Multi-Mode fiber cabling

GO THE EXTRA DISTANCE

Standard 1000SX Gigabit Ethernet enables low cost data transmission over multi-mode fiber optic cable, but only supports distances up to 220m (62.5/125µm) or 550m (50/125µm). A pair of AT-EX1001SC/GM1 Gigabit Multi-Mode Extenders increases this distance to a maximum of 2000m with no loss of performance.

UPGRADE FOR ETHERNET NETWORKS

Installations based on either Ethernet or Fast Ethernet networks have traditionally used multi-mode fiber optic cable to interconnect equipment within a building or campus. The fiber cable allowed the network to be larger (up to 2km per link) than the maximum 100m distances of UTP copper cable. However, under normal circumstances, this multi-mode fiber optic cable cannot be used to carry Gigabit traffic rates, as the long distance standard 1000LX requires the use of single-mode fiber. Using the AT-EX1001SC/GM1 Gigabit Multi-Mode Extenders, users can extend the life of their fiber optic cable installation and save the expense of having to install new single-mode fiber cables and equipment.

UPGRADE FOR FDDI NETWORKS

FDDI networks are based mostly on multi-mode fiber cabling, with maximum cable distances between stations or nodes being 2000m. Until now, there has not been a cost effective upgrade path for FDDI networks, as users wishing to migrate to Gigabit Ethernet would have to purchase single-mode fiber hardware and also replace all the fiber cable. The AT-EX1001SC/GM1 Gigabit Multi-Mode Extenders allow the existing multi-mode fiber cable to be used to carry Gigabit data instead of FDDI, thus significantly reducing the cost and time of network upgrades.

SIMPLE TO INSTALL

The AT-EX1001SC/GM1 Gigabit Multi-Mode Extenders are simple to install requiring no configuration. Simply connect the local multi-mode cable to the 1000SX port and the extended 2000m multi-mode cable to the multi-mode extender port. Repeat at the other end of the fiber cable, and the installation is complete.

ABOUT ALLIED TELESYN

Allied Telesyn's mission is to become a leading global supplier of IP based network products, systems and services that enable our customers to build superior solutions for high-bandwidth data, voice and video in the LAN, WAN and MAN.

These customers include global systems integrators, carriers and service providers, major resellers and logistical distributors serving the needs of education, local and state Government, the military, corporate enterprise, medium and large businesses and the small and home office community.

Our technology ranges from the simplest Ethernet adapters, hubs and media converters through to the very latest in high performance IP switches and routers, wireless and IP telephony solutions, customer premises equipment for access networks and security appliances. Comprehensive service and support programs that are designed to meet the growing demands of today's switched broadband infrastructures back all Allied Telesyn products.

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STATUS INDICATORS

PWR (Green)	Indicates power to the unit
P1 PLL (Green)	Indicates Phase Lock Loop is locked
P2 PLL (Green)	Indicates Phase Lock Loop is locked
P1 SD (Green)	Indicates signal is detected
P2 SD (Green)	Indicates signal is detected
LP/Back	(Loop Back function disabled)

MAXIMUM CABLE DISTANCE

1000SX Port 2:

62.5/125µm fiber	220m multi-mode fiber
50/125µm fiber	550m multi-mode fiber

Multi-Mode Extender Port 1:

62.5/125µm fiber	2000m multi-mode fiber
50/125µm fiber	2000m multi-mode fiber

FIBER OPTIC INTERFACE

1000SX Port 2

Connector Type - Dual SC:

Optical	Min	Typical	Max
Wavelength		850nm	
Output Power	-9.5dB		-7dB
Budget		6dB	

Multi-Mode Extender Port 1

Connector Type - Dual SC:

Optical	Min	Typical	Max
Wavelength		1310nm	
Output Power	-12dB		-5dB
Budget		n/a	

POWER CHARACTERISTICS

Internal AC model:

Input Voltage	100-240vAC
Frequency	50/60Hz
Max Current	0.3A
Power Consumption	6W
Connector	3-pin IEC female

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	-5°C to 45°C
Storage Temp.	-10°C to 60°C
Relative Humidity	5% to 85% noncondensing

PHYSICAL CHARACTERISTICS

Dimensions	16.2cm x 3.81cm x 20.0cm (6.39” x 1.5” x 7.9”)
Weight	1.29kg (2.85lbs)

ELECTRICAL/MECHANICAL APPROVALS

EMC	FCC Class A EN55022 Class A
Safety	UL CSA TUV CE AS/NZS 3260

ORDERING INFORMATION

AT-EX1001SC/GM1-xx

Gigabit Ethernet media extender,
multi-mode fiber SC, 2km

Where xx =
10 for U.S. power cord
20 for No power cord
30 for UK power cord
40 for Australian power cord
50 for European power cord

Product Range: Allied Telesyn’s long-term focus on price/performance networking has made it a market-leading provider of LAN, WAN and MAN network systems. Advanced Layer 3 switch and router technology perfectly complements its traditional Layer 2 switch, hub, adapter card and media conversion capabilities.

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Simply connecting the IP world